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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/617,989		07/10/2003	Gary L. Rapp	63153-018	63153-018 4245	
29493	7590	06/30/2004		EXAMINER		
HUSCH &		BERGER, LLC PLAZA	TRAN, THUY V			
SUITE 600		LILLI		ART UNIT	PAPER NUMBER	
ST. LOUIS	LOUIS, MO 63105-3441			2821		
				DATE MAILED: 06/20/200	4	

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N .	Applicant(s)					
	10/617,989	RAPP, GARY L.					
Offic Action Summary	Examin r	Art Unit					
	Thuy V. Tran	2821					
The MAILING DATE of this c mmunicati	on appears on the cover sheet w	ith the correspondence address -	-				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATORY Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicator If the period for reply specified above is less than thirty (30) day If NO period for reply is specified above, the maximum statutor Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION.  CFR 1.136(a). In no event, however, may a tion.  ys, a reply within the statutory minimum of thi y period will apply and will expire SIX (6) MO by statute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communica  BANDONED (35 U.S.C. § 133).	ation.				
Status							
1) Responsive to communication(s) filed or	n 10 July 2003.						
,	☐ This action is non-final.						
3) Since this application is in condition for a		ters, prosecution as to the merits	s is				
closed in accordance with the practice u							
Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the appli	cation.						
4a) Of the above claim(s) is/are w	ithdrawn from consideration.						
5)⊠ Claim(s) <u>17 and 18</u> is/are allowed.							
6)⊠ Claim(s) <u>1,2,10 and 11</u> is/are rejected.							
7)⊠ Claim(s) <u>3-9 and 12-16</u> is/are objected to							
8) Claim(s) are subject to restriction	and/or election requirement.						
Application Papers							
9) The specification is objected to by the Ex	aminer.						
10)⊠ The drawing(s) filed on 10 July 2003 is/a	re: a)□ accepted or b)⊠ obje	cted to by the Examiner.					
Applicant may not request that any objection	to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the	correction is required if the drawing	g(s) is objected to. See 37 CFR 1.12	ː1(d).				
11)☐ The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-152	<u>.</u>				
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for f</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority doc</li> <li>2. Certified copies of the priority doc</li> <li>3. Copies of the certified copies of the application from the International</li> </ul>	uments have been received. uments have been received in A ne priority documents have beer	Application No					
* See the attached detailed Office action for	r a list of the certified copies no	received.					
Attachment(s)	" <b>п</b>	O (DTO 440)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-9</li> </ol>		Summary (PTO-413) (s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 12/23/2003.		Informal Patent Application (PTO-152)					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/617,989

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#### **DETAILED ACTION**

This is a response to the Applicant's filing on July 10<sup>th</sup>, 2003. In virtue of this filing, claims 1-18 are currently presented in the instant application.

## Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on December 23<sup>rd</sup>, 2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## **Drawings Objections**

2. The drawings are objected to because of the following informalities:

Drawing lines in all figures are not uniform;

Textual characters should be put in all the boxes; and

Reference numerals in all figures are not sufficiently clear.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted

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by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-2 and 10-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Schoch (U.S. Patent No. 4,034,259).

With respect to claim 1, Schoch discloses, in Fig. 2, an automatic backup lighting control circuit comprising (1) a voltage supply (which is connected to terminals [81, 82]), (2) a switching mechanism [53] communicating with the voltage supply, (3) a current sensing device [95] communicating with the voltage supply and the switching mechanism [53], (4) a primary lamp [18] communicating with the current sensing device [95] and the voltage supply, and (5) a secondary lamp [19] communicating with the switching mechanism [53], wherein the current sensing device [95] activates the switching mechanism [53] to direct voltage to the secondary lamp [19] when the current sensing device [95] senses low amperage from its connection with the primary lamp [18].

With respect to claim 2, Schoch discloses an enclosure [11, 27] (see Fig. 1) for housing the primary lamp [18], the secondary lamp [19], the switching mechanism [53], the current sensing device [95], and the voltage supply.

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With respect to claim 10, Schoch discloses, in Fig. 2, an automatic backup lighting control circuit and a corresponding method comprising (1) electrically connecting a switching mechanism [53] with a voltage supply (which is connected to terminals [81, 82]), (2) electrically connecting a current sensing device [95] with the voltage supply and the switching mechanism [53], (3) electrically connecting a primary lamp [18] with the current sensing device [95] and the voltage supply, (4) electrically connecting a secondary lamp [19] with the switching mechanism [53], (5) providing voltage to the primary lamp [18], and (6) switching the supply of voltage to the secondary lamp [19] when the current sensing device [95] senses low amperage from its connection with the primary lamp [18].

With respect to claim 11, Schoch discloses a further step of providing an enclosure [11, 27] (see Fig. 1) for housing the primary lamp [18], the secondary lamp [19], the switching mechanism [53], the current sensing device [95], and the voltage supply.

#### Allowable Subject Matter

- 5. Claims 17-18 are allowed.
- 6. Claims 3-9 and 12-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter:
  Prior art fails to disclose or fairly suggest:
  - A highway light with an automatic backup lighting system wherein the current sensing device includes a current transformer and an ECS board, in combination with the remaining claimed limitations as called for in claim 3;

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A highway light with an automatic backup lighting system wherein the switching
mechanism includes relay having coil and common, normally closed and normally
open terminals, in combination with the remaining claimed limitations as called for in
claim 4 (claims 5-8 would be allowable since they are dependent on claim 4);

- A highway light with an automatic backup lighting system further including a voltage transformer communicating with the voltage supply, the switching mechanism, and the current sensing device, in combination with the remaining claimed limitations as called for in claim 9;
- A method for providing automatic backup lighting for a highway light wherein the step of electrically connecting the current sensing device with the voltage supply and the switching mechanism includes providing a current transformer and an ECS board as part of the current sensing device and connecting a normally open terminal in the ECS board with the switching mechanism, in combination with the remaining claimed limitations as called for in claim 12;
- A method for providing automatic backup lighting for a highway light wherein the step of electrically connecting the switching mechanism with the voltage supply includes providing a relay as part of the switching mechanism and connecting the voltage supply with a common terminal of the relay, in combination with the remaining claimed limitations as called for in claim 13 (claims 14-15 would be allowable since they are dependent on claim 13);
- A method for providing automatic backup lighting for a highway light further including the step of electrically connecting a voltage transformer to the voltage

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supply, the switching mechanism, and the current sensing device, in combination with the remaining claimed limitations as called for in claim 16; and

A backup lighting circuit for a highway light including (1) a powered relay communicating with the voltage supply, the relay having a coil, and common, normally closed and normally open terminals and wherein the common terminal is connecting to the voltage supply and the common and normally closed terminal are connected with the primary lamp, and (2) a current sensing device having a current transformer and an ECS board and communicating with the voltage supply, the switching mechanism and the primary lamp, the ECS board having a normally open terminal connected with the coil of the relay, in combination with the remaining claimed limitations as called for in independent claim 17 (claim 18 is allowed since it is dependent on claim 17).

#### Citation of relevant prior art

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Geanous et al. (U.S. Patent No. 4,767,968) discloses an electrical control system.

Prior art Murata et al. (U.S. Patent No. 4,227,119) discloses a lighting device.

#### Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thuy V. Tran Examiner Art Unit 2821

Muzhan

T.T. 06/28/04